

WHAT IS CLAIMED IS:

1. A stud finder for a light generating device or a level device, comprising:
 - a surface; and
 - a connection structure on the surface to removably mount either a light generating device or a leveling device thereto.
- 5 2. The attachment of Claim 1, further comprising a marking feature.
- 10 3. The attachment of Claim 2, wherein the marking feature is selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin, and a spring-biased marking pin.
4. The attachment of Claim 1, wherein the surface has at least one orifice for receiving at least one of a marking pin and a touch switch.
- 15 5. The attachment of Claim 1, further comprising a switch on the surface for activating the stud finder.
- 20 6. The attachment of Claim 1, wherein the surface comprises a flat surface and a recess for holding either a light generating device or a leveling device.
7. The attachment of Claim 1, wherein the connection structure comprises a latch for releasably holding a light generating device or a leveling device.
- 25 8. The attachment of Claim 1, wherein the connection structure is selected from the group consisting of a magnet, a magnetically attractive material, a hook fastener, a loop fastener, a tab, a slot, a flat surface, and a latch.

9. The attachment of Claim 1, further comprising at least one spring-loaded marking pin and an actuator for the pin.

5 10. The attachment of Claim 1, further comprising an enclosure for a power source, a capacitive sensor for detecting objects, a marking device, and at least one light for indicating a status of the stud finder.

11. The attachment of Claim 1, further comprising a capacitive sensor for detecting objects behind walls.

10 12. The attachment of Claim 1, wherein the surface is rotatably mounted relative to said connection structure.

15 13. The attachment of Claim 1, further comprising a housing adapted for receiving and retaining a light generating device or a leveling device and for retaining components of a stud finder; and

a controller, and a switch, a capacitive sensor and at least one light source connected to the controller.

20 14. A device comprising:
a stud finder comprising:
a connection structure; and
a surface; and
a light generating device removably attached to said stud finder via said
25 connection structure.

15. The device of Claim 14, wherein the light generating device generates a laser beam.

30 16. The device of Claim 14, wherein the light generating device generates light in the shape of a fan.

17. The device of Claim 15, wherein the light generating device generates the laser beam with an asymmetric intensity.

5 18. The device of Claim 14, wherein the connection structure further comprises a latch for capturing a portion of the light generating device.

19. The device of Claim 14, wherein the light generating device comprises a latch that engages the connection structure.

10 20. The device of Claim 14, wherein the connection structure comprises a magnet.

15 21. The device of Claim 14, wherein the connection structure comprises a material that is magnetically attracted to the light generating device.

22. The device of Claim 14, wherein the light generating device further comprises at least one retractable pin and an actuator for the pin.

20 23. The device of Claim 14, further comprising a normally-open switch protruding through the surface.

24. The device of Claim 14, further comprising at least one LED.

25 25. The device of Claim 14, further comprising a marking device selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin, and a spring-biased marking pin.

26. A device comprising:
a stud finder comprising:
 a connection structure; and
 a surface; and
5 a leveling device removably attached to said stud finder via said connection structure.

27. The device of Claim 26, wherein the connection structure further comprises a latch for capturing a portion of the leveling device.

10 28. The device of Claim 26, wherein the leveling device comprises a latch that engages the connection structure.

15 29. The device of Claim 26, wherein the connection structure comprises a magnet.

30. The device of Claim 26, wherein the connection structure comprises a material that is magnetically attracted to the leveling device.

20 31. The device of Claim 26, wherein the leveling device further comprises at least one retractable pin and an actuator for the pin.

32. The device of Claim 26, further comprising a normally-open switch protruding through the surface.

25 33. The device of Claim 26, further comprising at least one LED.

34. The device of Claim 26, further comprising a marking device selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin, and a spring-biased marking pin.

35. An accessory attachment for a light generating device or a leveling device, comprising:

5 a structural detector having a surface that comprises a connection structure to receive and mount either a light generating device or a leveling device thereto; and

a marking feature at least partially enclosed within the structural detector.

36. The attachment of Claim 35, wherein the structural detector further comprises a stud finder device.

10

37. The attachment of Claim 35, wherein the connection structure further comprises a magnet for securing a light generating device or a leveling device to the structural detector.

15

38. The attachment of Claim 35, wherein the marking feature is actuatable to extend from the surface of the structural detector.

20 39. The attachment of Claim 35, wherein the marking feature is selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin, and a spring-biased marking pin

40. The attachment of Claim 35, wherein the marking feature is actuatable by an actuator on a light generating device or a leveling device.

25

41. The attachment of Claim 35, further comprising a switch protruding through the surface of the structural detector.

30 42. The attachment of Claim 35, wherein the surface of the structural detector has at least one orifice for receiving at least one of a marking pin and a switch.

43. A method for finding a concealed feature and aligning objects on a surface, the method comprising:

inserting a leveling device into a structural detector, the structural detector comprising:

5 a connection structure to mount the leveling device thereto; and
a surface;

placing the surface against a wall;

locating at least one concealed feature underneath the wall using the structural detector; and

10 marking the wall along a line defined by the leveling device.

44. The method of Claim 43, wherein the leveling device comprises a light generating device.

15 45. The method of Claim 44, wherein the light generating device generates a laser beam.

46. The method of Claim 44, wherein the light generating device generates light in the shape of a fan.

20 47. The method of Claim 44, wherein the light generating device generates the laser beam with an asymmetric intensity.

25 48. The method of Claim 44, further comprising sighting on a distant object using light from the light generating device before the step of marking the wall.

49. The method of Claim 44, further comprising connecting a battery to at least one of the structural detector or the light generating device.

30

50. The method of Claim 43, further comprising the step of marking the wall using a marking device attached to the structural detector.

5 51. The method of Claim 50, wherein the marking device is selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin, and a spring-biased marking pin.

10 52. A kit for a light generating device with a stud finder, comprising:
a container defining a volume of space;
a stud finder positioned within the volume of space, the stud finder comprising:

a surface; and
a connection structure; and

15 a light generating device positioned within the volume of space so as to be unattached to the stud finder, wherein the connection structure can be used to removably mount the light generating device to the surface.

53. The kit of claim 52, wherein the light generating device generates a laser beam.

20 54. The kit of Claim 53, wherein the light generating device generates the laser beam with an asymmetric intensity.

25 55. The kit of claim 52, wherein the light generating device generates light in the shape of a fan.

30 56. The kit of Claim 55, wherein the light generating device comprises a housing with a surface that extends along a first planar surface and the fan substantially lies within a second plane that intersects the first planar surface at an angle.

57. The kit of Claim 52, wherein the light generating device further comprises a retractable pin and an actuator for the pin.

5 58. The kit of Claim 52, wherein the connection structure comprises a latch.

59. The kit of Claim 52, wherein the light generating device comprises a latch that engages the connection structure.

10 60. The kit of Claim 52, wherein the connection structure comprises a magnet.

61. The kit of Claim 52, wherein the connection structure comprises a material that is magnetically attracted to the light generating device.

15 62. A kit for a leveling device with a stud finder, comprising:
a container defining a volume of space;
a stud finder positioned within the volume of space, the stud finder comprising:

20 a surface; and
a connection structure; and
a leveling device positioned within the volume of space so as to be unattached to the stud finder, wherein the connection structure can be used to mount the stud finder to the surface.

25 63. The kit of Claim 62, wherein the leveling device further comprises a retractable pin and an actuator for the pin.

30 64. The kit of Claim 62, wherein the connection structure comprises a latch.

65. The kit of Claim 62, wherein the leveling device comprises a latch that engages the connection structure.

5 66. The kit of Claim 62, wherein the connection structure comprises a magnet.

67. The kit of Claim 62, wherein the connection structure comprises a material that is magnetically attracted to the leveling device.

10

68. A device comprising:
a stud finder comprising:
a connection structure; and
a surface; and

15 a normally-open switch protruding through the surface.

69. The device of Claim 68, further comprising a marker selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin and a spring-biased marking pin.

20

70. The device of Claim 69, wherein the marker is contained within the device.

25

71. The device of Claim 68, wherein the connection structure is selected from the group consisting of a magnet, a magnetically attractive material, a hook fastener, a loop fastener, a tab, a slot, a flat surface, and a latch.

72. The device of Claim 68, further comprising a controller and a capacitive sensor and at least one light source connected to the controller.

30

73. The device of Claim 68, further comprising a light generating device mounted to the connection structure.

5 74. The device of Claim 73, wherein the light generating device comprises a connection structure complementary to the connection structure of the stud finder.

10 75. A device comprising:
a stud finder comprising:
a housing with a surface; and
a normally-open switch protruding through the surface.

15 76. The device of Claim 75, further comprising a marker selected from the group consisting of a sharp point, a pencil, a pen, a felt-tipped pen, a marking pin and a spring-biased marking pin.

77. The device of Claim 76, wherein the marker is contained within the device.

20 78. The device of Claim 75, further comprising a connection structure on an external surface of the stud finder.

25 79. The device of Claim 78, wherein the connection structure is selected from the group consisting of a magnet, a magnetically attractive material, a hook fastener, a loop fastener, a tab, a slot, a flat surface, and a latch.

80. The device of Claim 75, further comprising a controller and a capacitive sensor and at least one light source connected to the controller.